

# *Elements and Ephemeris of Winnecke's New Comet.*

(Communicated in a Letter from Dr. Winnecke to Mr. Hind.)

The elements, which depend upon observations at Carlsruhe to June 2, and one made by Prof. Argeander on June 5, are as follow :—

T = 1870, July 12<sup>h</sup> 9<sup>m</sup> 05, M.T. at Berlin.

$$\begin{array}{rcl} \pi & = & 3^{\circ} 02' 14'' 53 \\ \delta & = & 140^{\circ} 3' 45'' \\ i & = & 57^{\circ} 19' 17'' \end{array} \left. \vphantom{\begin{array}{rcl} \pi & = & 3^{\circ} 02' 14'' 53 \\ \delta & = & 140^{\circ} 3' 45'' \\ i & = & 57^{\circ} 19' 17'' \end{array}} \right\} \begin{array}{l} \text{Apparent Equin.} \\ \text{June 2.} \end{array}$$

$$\log q = 9.99579$$

Retrograde.

Ephemeris for 12<sup>h</sup>, Berlin.

| 1870.  | R.A.    | $\delta$  | Log $r$ . | Log $\Delta$ . |
|--------|---------|-----------|-----------|----------------|
| May 30 | 12 30.7 | + 28 53.8 | 0.0910    | 0.2078         |
| June 3 | 13 42.7 | 27 51.0   | 0.0775    | 0.1779         |
| 7      | 15 0.6  | 26 37.2   | 0.0643    | 0.1445         |
| 11     | 16 26.9 | 25 8.9    | 0.0517    | 0.1070         |
| 15     | 18 4.4  | 23 21.0   | 0.0398    | 0.0649         |
| 19     | 19 58.1 | 21 6.6    | 0.0289    | 0.0173         |
| 23     | 22 14.9 | 18 14.4   | 0.0192    | 9.9632         |
| 27     | 25 5.3  | 14 27.2   | 0.0109    | 9.9018         |
| July 1 | 28 46.5 | 9 16.1    | 0.0042    | 9.8328         |
| 5      | 33 45.7 | + 1 59.0  | 9.9994    | 9.7571         |

## *Observations of Winnecke's New Comet.* By S. J. Perry, Esq.

The comet discovered on May 30, at Carlsruhe, by Dr. Winnecke, was observed here on June 6, at about 12<sup>h</sup> 30<sup>m</sup> G.M.T. Its brilliancy must be considerably greater than that of the comet found last year by the same astronomer. Since it was picked up almost immediately with a low power, although the light of both Sun and Moon were sufficiently strong to illumine the field distinctly, and the object was not many degrees from the eastern horizon.

The co-ordinates corrected for instrumental errors and refraction were on June 6, at 17<sup>h</sup> 45<sup>m</sup> 38<sup>s</sup>.5 sidereal time.

R.A.    0<sup>h</sup> 57<sup>m</sup> 3<sup>s</sup>.6                      N.P.D.    62° 49' 31.6

Light clouds prevented my obtaining a position of June 7, and last night the sky was completely obscured by clouds. I hope to observe it again when the Moon rises after midnight. I have several times swept in vain for D'Arrest's comet.

June 8, 1870,  
Stonyhurst Observatory, Whalley.

### Instrument for Sale.

A Dip Sector or Dipping Needle, German make, in a handsome case, quite new, never having been used, provided with a mirror, by which the deviations of the magnetic needle are indicated with the greatest possible accuracy. For further particulars apply to the Assistant-Secretary at the Rooms of the Society.

### ERRATA.

Page 176, line 2 from bottom, for "richly" read "sickly."

Page 179, line 8 from bottom, for Feb. 2, read Feb. 10.

„ line 7 from bottom, for  $9^h 7^m 14^s.9$ , G.M.T., read  $9^h 8^m 10^s$ , G.M.T.

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